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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/617,532	07/11/2003	Masatoshi Nakayama	27391/US587	3499		
4743	7590 05/10/2006		EXAM	EXAMINER		
	LL, GERSTEIN & BOF	CHEN, T	CHEN, TIANJIE			
233 S. WACKER DRIVE, SUITE 6300 SEARS TOWER			ART UNIT	PAPER NUMBER		
	, IL 60606	2627				
			DATE MAILED: 05/10/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
Office Action Summary		10/617,532	NAKAYAMA, MASATOSHI		
		Examiner	Art Unit		
		Tianjie Chen	2656		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in a sions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	l. ely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status					
2a)	, — , — , — , — , — , — , — , — , — , —	action is non-final. nce except for formal matters, pro			
Dispositi	on of Claims				
5)□ 6)⊠ 7)□	Claim(s) <u>1,3 and 9</u> is/are pending in the applicated of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) <u>1,3,9</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.			
Applicati	on Papers				
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acception acception acception and any objection to the Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Example.	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority u	ınder 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment	Hel				
1) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	te		
	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	5) Notice of Informal Page 6) Other:	atent Application (PTO-152)		

Application/Control Number: 10/617,532

Art Unit: 2656

Non-Final Rejection (RCE)

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 03/01/2006 has been entered. Claims 1, 3, and 9 are pending.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1 and 9 are rejected under 35 U.S.C. 102(e) as being anticipated by Meguro et al (US 6,538,847).
- Claim 1, Meguro et al shows a thin-film magnetic head having an magnetoresistive (MR) head portion 23 (Fig.1, column 6, line 6) containing magnetoresistive elements, wherein a diamond-like carbon (DLC) protective film having a composition represented by the following formula: CH_a O_b N_c F_d B_e P_f (where a = 0, b = 0, c = 0, d = 0, e = 0, a and f = 0, in terms of atomic ratio), and having a

Application/Control Number: 10/617,532

Art Unit: 2656

thickness of 10 - 30 Å (Column 9, lines 24-28), is formed directly (Column 9, lines 24-28) on at least the surface of the MR head portion facing a recording medium.

Claim 9, Meguro et al further shows in Fig. 3 that a slider is equipped with the thin-film magnetic head as described above.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Meguro et al in view of Nepela et al (US 6,330,131).

Claim 3, Meguro et al does not show a = 0.05 - 0.7.

Nepela et al shows a protective layer wherein a =0.03-0.4 (Column 2, lines 49-54).

It would have been obvious at the time the invention was made to one of ordinary skill in the art to set a=0.03-0.4 as taught by Nepela et al. The rationale is as follows: Meguro et al teaches a protective layer, but does not teach the method of making the layer. Nepela et al teaches a method of making the protective layer and teaches that if keep a=0.03-0.4, the layer would have high hardness (Column 2, lines 49-54). One of ordinary skill in the art would have been motivated to set a=0.03-0.4 to obtain high hardness.

Application/Control Number: 10/617,532 Page 4

Art Unit: 2656

Response to Arguments

4. Applicant's arguments filed 03/01/2006 have been fully considered but they

are not persuasive.

• This is a US patent application. A US dictionary, rather than a Japanese

dictionary, should be used in interpretation of the terms cited in the claim.

several pron, pl in constr (1686): an indefinite number more than two

and fewer than many.

From: Merriam-Webster's Collegiate Dictionary Tenth Edition.

It clearly shows that the reference reads on claim 1 properly.

Examiner sees no reason the rejection should be traversed.

• Reference shows the protective layer covers the entire surface facing the

recording medium, which reads perfectly the language recited in claim 1.

Rejection maintains.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Tianjie Chen whose telephone number is 571-272-

7570. The examiner can normally be reached on 8:00-4:30, Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Hoa Nguyen can be reached on 571-272-7579. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/617,532 Page 5

Art Unit: 2656

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TIANJIE CHEN
PRIMARY EXAMINER